

Please amend claim 2 as follows:

2. (once amended) [A]The radioactive source [as claimed in]of claim 1 wherein the substrate plus the adsorbed iodine is sealed within a biocompatible container.

Please amend claim 3 as follows:

3. (once amended) [A]The radioactive source [as claimed in]of claim 2 wherein the container is echogenic.

Please amend claim 4 as follows:

4. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 3]of claim 1 wherein the isotope of iodine is iodine-125.

Please amend claim 5 as follows:

5. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 4]of claim 1 which has an activity in the range of about 200 mCi to about 1200 mCi.

Please amend claim 6 as follows:

6. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 4]of claim 1 which has an activity in the range of about 0.1 to about 5 mCi.

Please amend claim 7 as follows:

7. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 6]of claim 1 wherein the iodine containing compound is an iodohalogen compound, an organic compound containing a carbon-iodine bond, an iodoso-compound, a diaryliodonium salt, an N-iodoamide, an iodoxy aryl compound or a covalently bonded inorganic iodide compound.

Please amend claim 8 as follows:

8. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 7]of claim 1 wherein the substrate is carbon, alumina, a zeolite, a titanium oxide, silica, a silicon oxide, a zeolite-type trivalent metal silicate, a metal phosphate, a metal hydroxyphosphate, a glassy material, aluminum nitride, a ceramic, a radiation resistant polymer, bone, coral, coal, limestone, cellulose, starch, agar, gelatin, chitin or hair.

Please amend claim 9 as follows:

9. (once amended) [A]The radioactive source [as claimed in any of claims 1 to 7]of claim 1 wherein the substrate is carbon.

Please amend claim 10 as follows:

10. (once amended) [A]The radioactive source [as claimed in any one of claims 1 to 9 which]of claim 1 further [comprises]comprising a binder.

Please amend claim 11 as follows:

11. (once amended) A method for the preparation of a radioactive substrate suitable for use in a brachytherapy source, [the method ]comprising exposing a substantially non-radiation attenuating substance, other than an ion-exchange resin, to a source of radioactive iodide ions such that the iodide ions are adsorbed onto the surface of the substrate.

Please amend claim 12 as follows:

12. (once amended) A method for the preparation of a radioactive substrate suitable for use in a brachytherapy source, [the method ]comprising exposing a substantially non-radiation attenuating substrate to a radioactive iodine-containing compound such that the iodine-containing compound is adsorbed onto the surface of the substrate.

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13. (once amended) A method of treatment of a condition which is responsive to radiation therapy which comprises the temporary placement of [a]the radioactive source, [comprising]including a radioisotope of iodine in the form of iodide ions or an iodine-containing compound adsorbed on the surface of a substantially non-radiation attenuating substrate, of claim 1 at the site to be treated within a patient for a sufficient period of time to deliver a therapeutically effective dose.

Please amend claim 14 as follows:

14. (once amended) A method for the inhibition of restenosis at a site within the vascular system of a patient which has previously been subjected to PTCA, the method comprising the temporary placement of [a]the radioactive source, [comprising]including a radioisotope of iodine in the form of iodide ions or an iodine-containing compound adsorbed on the surface of a substantially non-radiation attenuating substrate, of claim 1 at the site to be treated within a patient for a sufficient period of time to deliver a therapeutically effective dose.

Please amend claim 15 as follows: